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Top Secret

25X1

basic imagery interpretation report

Ulan-Ude Airframe Plant 99 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES
USSR

25X1

Top Secret

RCA-09/0018/80 AUGUST 1980 Copy 49



		aoT	Secret RUFF			
						25 X 1
						_
INSTALLATION OR ACTIV	VITY NAME				COUNTRY	
Ulan-Ude Airfrar					LID	
Ulan-Ude East A				100	UR	
UTM COORDINATES	GEOGRAPHIC CO	00rdinates 107-44-42E	ICATEGORY IRE NO	I COMIREX NO	NIETB NO.	25 X 1
NA	51-51-00N	107-44-04E				-
MAP REFERENCE						
SAC. USATC, Se	eries 200. Sheet	0201-1. scale 1:	200,000			
LATEST IMAGERY USED		,	NEGATION DATE (IF	required)		_
						25 X 1
See "Abstract"			NA			
			A DOTE A CIT			_
		4	ABSTRACT			
1. (S/D) This report	updates four	previous NPIC reports	; 		25 X 1
		on U	Jlan-Ude Airframe Pla	nt 99, USSR, and	satisfies the	25 X 1
basic reportir	ng requirement	for this target	t. Activity observed sing	the latest date of	the infor-	25X1 25X1
mation cutoff discussed in the		most recent rep	ort, through	the latest date of	imagery, is	23/1
	_	reporting perio	od, 1,698 square meters	of usable floorspace	was added	
to the plant.	bringing the	plant total to 2	31,361 square meters. A	n additional 6,727 so	quare meters	
of floorspace	were under c	onstruction on	_5,219 w	ill be directly produc	tion related.	25 X 1
-						25 X 5
			- 1 -			25 X 1
			Tam Cooret	D.C.	A 00/0018/80	

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At Ulan-Ude East Airfield, the test and flyaway field for the plant, extensive upgrading of operational facilities was observed, including the construction in a new support area. Continuing construction and production activity at the plant are discussed in this report.

3. (S/D) This report includes a location map, five annotated photographs, two tables of mensural data, and a table listing aircraft observed.

Table 1. Ulan-Ude Airframe Plant 99 and Ulan-Ude Airfield East (Items keyed to Figure 2)

This table in its entirety is classified TOP SECRET RUFF

		l	Dimensio	ns	Floorspace	<u> </u>		
Item	Function		(m)		(sq m)	Remarks		
		L	W	Н				
Airfram	e Plant 99							
2	Assem bldg							
a	New assem							
	bldg addition				2,555	Ucon		
b	Prob personnel shelter				1,508	Ucon		
c	Final assem hall				2,664	Ucon		
	addition							
14	Shop/support bldg				910	Complete Feb 80		
15	Cooling unit				_	Complete Feb 80		
19	Shop bldg				410	Complete Jan 79		
20	Stor shed				378	Height undet;		
						complete Jan 79		
Airfield	d East							
16	Maint				629	Max height		
	hangar					C		
17	Operations bldg				583	Complete Jan 79		
18	POL support bldg				1,439	Complete Mar 80		
	Parking area B					•		
	Parking area C							
	Parking area C							
	Parking area D							
	Parking area E							
Floors	pace on Dec 77				229,663			
Floors	pace added since Dec 77	1			1,698			
Total f	loorspace on				231,361			
Floors	pace ucon				6,727			
Project	ed total floorspace				238,068			

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25X1

25X1



BASIC DESCRIPTION

4. (S/D) This report updates four previous NPIC reports. ¹⁻⁴ The sequence of numbers used in this report is based on that used in the latest report. This report describes continuing construction and production activity at Ulan-Ude Airframe Plant 99 and activity observed at Ulan-Ude East Airfield, the test and flyaway field for the plant (Figure 1). Construction observed at the plant resulted in the addition of 1,698 square meters of floorspace. An additional 6,727 square meters were under construction on	25 X 1
Plant Construction	r
5. (S/D) Initial preparation for an addition (item 2a, Figure 2 and Table 1) to the assembly building was observed on This addition, which is 73 by 35 meters, was nearly externally complete on	25X1 25X1
6. (S/D) On site preparation for a large, probable underground personnel shelter (item 2b) was begun. This shelter is approximately and is immediately behind the new assembly building addition. This shelter appeared to be connected by an underground conduit with several other buildings and other personnel shelters within the assembly area of the plant.	25X1 25X1
7. (S/D) On initial construction for an addition (item 2c) to the final assembly hall was observed. By this addition was in the midstage of construction and will be approximately meters when complete.	25X1 25X1 25X1
8. (S/D) In August 1978, a vehicle/equipment storage shed (item 20) was under construction just west of a hangar adjacent to the helicopter parking area. This storage shed was externally complete by A small shop building (item 19) begun in December 1977 was also complete by that date.	25 X 1
9. (S/D) The first identification of additional construction near the existing assembly building (item 1) was made from imagery acquired on this area of construction had been expanded, and two separate areas for new structures could be identified.	25 X 1
Vertical stanchions for a small shop/support building (item 14) had been erected by mid-August, it was apparent that the second structure (item 15) was a cooling unit. This cooling unit was connected by conduit with the assembly building. At approximately the midstage of construction of the shop/support building, a small underground personnel shelter was under construction. This shelter also appeared to be connected by conduit to other buildings in the assembly area. The new structures were complete by February 1980, and the cooling unit had been equipped with three horizontally mounted fans.	25X1
10. (S/D) On footings for a new maintenance hangar (item 16) were observed on two sides of the walled area adjacent to the helicopter parking area. This building was complete on	25 X 1
Throughout the inclusive dates (from covered by this report, FLOGGER aircraft were seen in the vicinity of this building.	25 X 1
11. (S/D) On two rows of four small, circular excavations were observed in the center of the helicopter parking area A. These rows were approximately 12 meters apart, and each excavation within the row was 3 meters apart. By July 1979, vertical supports had been placed in each excavation. However, no further construction or materials were observed. On imagery of	25X1
only faint outlines of the excavations were observed, and all activity had ceased.	25X1
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Airfield Construction

12. (S/D) Ulan-Ude East Airfield, which serves as the test and flyaway field for the plant, has been upgraded since December 1977. The single, serviceable concrete runway was extended by 794 meters, bringing the overall length of the runway to 2,916 meters. The width of this east-	
northeast/west-southwest azimuth runway remained at 64 meters.	25 X 1
13. (S/D) The airfield has an almost parallel taxiway which serves the west-southwest portion of the airfield and the southwest area of the plant, one end-connecting link, one crossover link	
to the secured helicopter parking area A, and a taxiway to a compass rose. On earth grading for new hardstands was observed in this west-southwest portion of the airfield. One of the previous circular hardstands had been removed to make room for the four new, rectangular hardstands. These new rectangular hardstands were constructed of precast slab concrete and are 18	25 X 1
by 10 meters. These hardstands were complete by Additional grading and construc-	25X1
tion materials were observed on and a probable new crossover taxiway was under	25X1
construction near these hardstands. On grading for eight additional hardstands was observed in the helicopter parking area. These hardstands consist of two precast concrete	25X1
slabs forming a T shape, which were in place by Also, an operations building (item 17) had been constructed by January 1979.	25 X 1
14. (S/D) On imagery of additional grading for an apparent extension to the	25X1
east-northeast end of the runway was observed. By grading activity had intensified,	25X1
and stacks of paving material were observed throughout this area. By some paving blocks were already in place. Additional grading in four other areas was observed and a temporary construction camp—consisting of four large tents, several stacks of construction materials, and	25 X 1
two trailers—was also present. The temporary construction camp was expanded until 11 permanent structures had been completed and at least one more was in the early stage of construction.	
By June 1979, all four areas identified were being paved. Parking areas B and D (Figure 2) were	
constructed of precast concrete blocks, and parking areas D and E were constructed of reinforced asphalt. A 510-meter taxiway was completed which connects these four parking areas with the	
runway. Construction in the parking areas was completed by	25 X 1
15. (S/D) As of the support area for these newly completed parking areas	25X1
consisted of 11 completed barracks/storage buildings and one inflatable structure. Two other buildings (items 26 and 31, Figure 3 and Table 2) were under construction.	20/1
16. (S/D) A weapons/electronics calibration facility was built north of the extension to the east-northeast end of the runway. This facility was complete by	0EV4
	25X1
17. (S/D) Ulan-Ude Air Warning Radar Facility is approximately 1,390 meters northeast of the east-northeast end of the runway. This site contains four radars—two BAR LOCK, one SIDE NET, and one FLAT FACE.	25 X 1
18. (S/D) A separately secured ground control approach (GCA) radar site is southeast of	
the center of the runway. The site contains one LONG TALK GCA radar and one SMALL CROSS very-high-frequency direction-finding radar.	
19. (S/D) An RSBN-4N short-range navigation system (Figure 2) is in a separately secured	
site east-northeast of the east-northeast end of the runway. A separately secured TALL PATH	
glide path transmitter site is just southeast of the east-northeast end of the runway, and a separ-	
at the west-southwest end of the runway.	
20. (S/D) Two arresting wire/nets are at the west-southwest end of the runway. These arresting wires/nets were in place prior to	25 X 1

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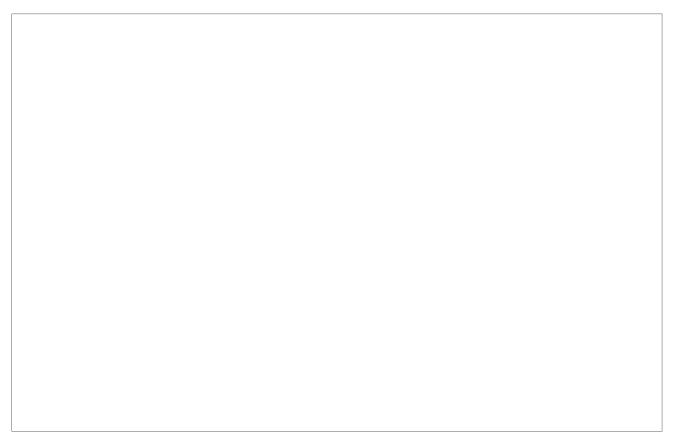


Table 2. New Support Area Ulan-Ude Airframe Plant 99 (Items keyed to Figure 3)

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)imension	5	Floorspace	Remarks	
ltem	Function		(m)		(sq m)		
		L	w	Н			
21	Barracks/stor				869	Complete Jan 80:	
						total 1,020 sq m	
a	Addition				151		
22	Barracks/stor				518	Complete Jan 80	
23	Barracks				529	Complete Jan 80	
24	Barracks				529	Complete Jan 80	
25	Barracks				529	Complete Jan 80	
26	Prob barracks				529	Ucon	
27	Support/stor bldg				408	Complete Jan 80;	
a	Addition				143	total 551 sq m	
28	Support/stor bldg				408	Complete Jan 80;	
a	Addition				143	total 551 sq m	
29	Support stor bldg				252	Complete Jan 80	
30	Support stor bldg				252	Complete Jan 80	
31	Prob support/stor bldg				252	Ucon	
32	Support/stor bldg				252	Complete Jan 80	
33	Support/stor bldg				252	Complete Jan 80	
34	Inflatable support				434		
	bldg				(approx)		

^{*}Height at eave.

25X1

25X1

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^{**}Height at peak.

POL Storage Area

21. (S/D) Renewed activity was observed in the POL storage area (Figure 4) on Activity in this area had remained unchanged since were observed in this area. On six flatcars carrying construction materials on the rail line at the POL facility. Two medium-sized and several small cylindrical tanks observed on the ground just off the service rail line. By 42 large, four medium 12 small POL tanks were observed on the ground in this area. By all of the tanks were in place. This new POL storage area consists of four rows of ten large tanks each A), one row of 12 small tanks (item B), and one row of 13 tanks of three various sizes (items each E). 22. (S/D) Construction on a new support building (item 18, Figure 2) in the POL area	were were , and POL (item C, D,
observed on Vertical stanchions had partially been erected by	and
observed on vertical stancinons had partially been elected by	and

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25X1 25X1 25X1

25X1 25X1

roofing was underway on This building was constructed of precast concrete and was almost externally complete on	25X1 25X1
Production Activity	
23. (S/D) Ulan-Ude Airframe Plant 99 can be associated with the production of HOR-MONE (KA-25) helicopters and with HIP C (MI-8) helicopters. The production of HORMONE may possibly be continuing, but the infrequent observations of these helicopters at this plant suggest that the HORMONE are no longer produced, athough it may be involved in maintenance/modification. During the period covered by this report (Table 3), not more than one HORMONE was observed on any single coverage of the plant. Four HORMONE crates and four HORMONE component crates were observed on each coverage from through After that date, HORMONE crates and component crates were observed only infrequently.	25X1 25X1
24. (S/D) The HIP helicopters being produced at Ulan-Ude Airframe Plant 99 appeared to be the modified HIP C. These aircraft may have been present as early as March 1978 but could not be confirmed at that time. On eight modified HIP C with disruptive painting were in the helicopter parking area A (Figure 5). The modification consisted of the addition of two functionally unidentified pods/boxes/stores, one on each side of the rear portion of the fuselage	25 X 1
immediately aft of the engine access panels. These pods/boxes/stores are approximately meters. These unidentified pods/boxes/stores may appear to be rectangular because of an unidentified type cover. On some occasions, the mod HIP C appeared to have one rail-like	25X1 25X1
appendage on each side. Each rail-like appendage has three pairs of support struts, which extend perpendicularly away from the appendage and are parallel with the ground. Each pair of struts is separated by approximately and the width of each pair of struts is approximately The mod HIP C has also been observed at Kazan Airframe Plant B-387 (BE and Blagoyevo Airfield	25X1 25X1 25X1 25X1
25. (S/D) FLOGGER engine shipping containers and FLOGGER afterburner shipping containers were observed in the storage area north-northwest of the large maintenance hangar on various coverages during the inclusive dates of this report. FLOGGER engine and afterburner shipping containers had been observed at Ulan-Ude Airframe Plant 99 as early as	25 X 1
26. (S/D) FLOGGER aircraft have been observed at various times since the first observance of FLOGGER on	25X1 25X1 25X1 25X1
27. (S/D) The presence of a weapons/electronics calibration facility at Ulan-Ude and the large variation in the number of FLOGGER observed suggest that FLOGGER are being fitted with weapons-related electronics at Ulan-Ude. At this time, there is no firm evidence to suggest that FLOGGER are being produced at this plant.	

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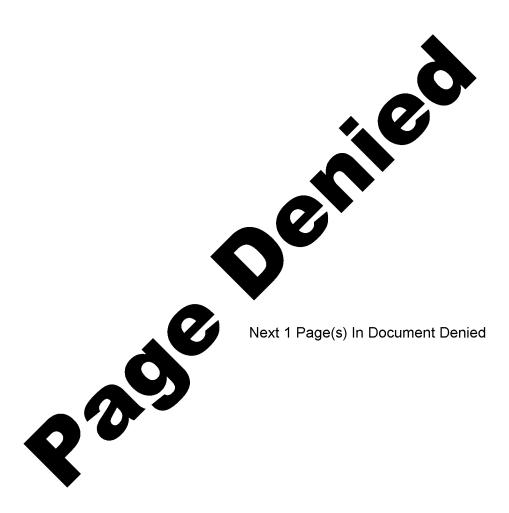


Table 3. Aircraft Observed at Ulan-Ude Airframe Plant 99 and Flyaway Field

This table in its entirety is classified TOP SECRET RUFF

Date	Helicopter Parking	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other
	Area A 9 HIP C	3 HIP	AITA D	AITA	AICED	Alta L	1 HIP in calibration fac
	8 HIP C	3 1111					· · · · · · · · · · · · · · · · · · ·
	12 HIP						
	1 HORMONE						
	11 HIP C						
	6 HIP C						
	2 unid						
	6 HIP C						
	7 HIP C						
	6 HIP C	1 HORMONE					
		1 HIP C					
	5 HIP C						
	I HORMONE						
	1 HIP C	1 HORMONE					
		2 HIP C					
	3 HIP C						
	1 HORMONE						
	2 HIP C	I HIP C					
	1 HORMONE						
	2 HIP C	3 HIP C					
	1 HORMONE	4 HIP C					
	1 HORMONE	1 HIP C					
		1 HIP E					
	8 HIP C						
	1 HORMONE						
	5 H1P C						
	3 HIP C	1 HORMONE					
		5 prob HIP E					
	5 HIP C						1 HIP C near
	1 HORMONE						maint hangar
	12 HIP C						
	1 HORMONE						
	4 HIP C	1 HIP C					
	1 HORMONE						
	4 HIP C	1 HORMONE					I HIP C near
							maint hangar
	2 HIP C	HORMONE					
		3 HIP C					
	7 HIP C						
	9 HIP E						
	11 HIP C						
	1 HORMONE						
	9 HIP E	1 HORMONE					
	1 FLOGGER	1 HIP C					
	6 HIP C	1 HORMONE					
		6 HIP E					
	14 HIP C	I HORMONE					
		2 HIP E (prob)					
	1						

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Table 3. Continued

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Date	Helicopter Parking Area A	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other
	13 HIP C	1 HORMONE					
	9 HIP C	1 HIP C					
	7 HIP C	1 HORMONE					
		I HIP C					
		2 HIP E					
	9 HIP C	1 HIP (partial					
	1 HORMONE	coverage)					
	11 HIP C	1 HORMONE					
	10 HIP C						
	1 HORMONE						
	(partial coverage)						
	9 HIP C (4 w/o rotors)	4 HIP E (prob)					
	1 HORMONE	-					
	8 HIP C w/o rotors						
	1 HORMONE						
	9 HIP C (8 w/o rotors)						
	1 HORMONE						
	9 HIP C (8 w/o rotors)	7 HIP E					
	1 HORMONE	1 HIP E on					
		taxiway					
	8 HIP C w/o rotors						I HIP C w/o rotor
	1 HORMONE						near maint hangar
	8 HIP E/F						•
	11 HIP C						
	(10 w/o rotors, 1						
	w/o tail)						
	1 HORMONE						
	1 FLOGGER D/F						
	inside open-roofed						
	bldg						
	10 HIP C						I FLOGGER in
	1 HORMONE						calibration fac
	11 HIP C (10						
	w/o rotors)						
	1 FLOGGER D/F						
	1 HORMONE						
	2 HIP C w/unid stores						I FLOGGER at
	(mod)						maint hangar
	10 HIP C w/o rotors 2 HIP C mod	2.141D.E.(
		3 HIP E (prob)					1 HIP C mod
	10 HIP C w/o rotors						at maint hangar
	1 HORMONE 2 HIP C mod	2 HID F ()					
		2 HIP E (poss)					1 FLOGGER on runway
	10 HIP C w/o rotors 9 HIP C	1 HORMONE					3.44D.G. (
	6 HIP C w/o rotors						3 HIP C w/o rotors
	1 HORMONE						incl 1 HIP C w/o tail
	2 HIP C (mod)	LIUD C 4					
		1 HIP C mod					
	10 HIP C w/o rotors 9 HIP C (mod)	1 HIP C					
	10 HIP C w/o rotors						
	1 HORMONE						
	1 HOKMONE						

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Table 3. Continued

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Date	Helicopter Parking	Hardstand	Parking	Parking	Parking	Parking	Other
	Area A	Area	Area B	Area C	Area D	Area E	
	9 HIP C (mod)						
	10 HIP C w/o rotors						
	1 HORMONE						
	1 FLOGGER						
	10 HIP C w/o rotors						10 HIP C—one row
							of 5 on each edge of
							the center of the runwa
	8 HIP C w/o rotors	6 HIP C mod					3 HIP C mod (prob)
	1 FLOGGER	(prob)					on taxiway in hardstan
		I HIP C					area
		1 HORMONE					
	8 HIP C w/o rotors	1 HIP C					
	1 HORMONE						
	3 HIP C (mod)	3 HIP C					
	6 HIP C w/o rotors						
	1 FLOGGER						
	1 HORMONE						
	1 CODLING						
	9 HIP C (2 poss mod)						
	6 HIP C w/o rotors						
	1 HORMONE						
	1 CODLING						
	10 HIP C mod (poss)						
	6 HIP C w/o rotors						
	1 HORMONE						
	1 CODLING						
	6 HIP C mod (poss)	1 HIP C					
	6 HIP C w/o rotors						
	1 FLOGGER						
	1 HORMONE						
	1 CODLING						
	6 HIP C w/o rotors	1 HIP C					
	1 FLOGGER (poss)						
	1 HORMONE						
	1 CODLING						
	1 HIP C mod (poss)						
	4 HIP C w/o rotors						
	1 HORMONE						
	1 CODLING	4 HID C					
	3 HIP C Mod	4 HIP C					
	1 HIP C w/o rotor						
	1 HORMONE	2 HID C					
	4 HIP C	2 HIP C					
	1 HIP C w/o rotor						
	1 FLOGGER						
	1 HORMONE						
	I CODLING						
	12 HIP C						
	1 HIP C w/o rotors						
	1 HORMONE						
	1 CODLING						

Table 3. Continued

This table in its entirety is classified TOP SECRET RUFF

Date	Helicopter Parking Area A	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other	
	11 HIP C (prob)				41.CR D	AICE E	- ·	25X1
	HORMONE							
	1 CODLING							
	12 HIP C (prob)	I HORMONE						
	1 CODING	2 HIP C						•
	17 HIP C (prob)	1 HIP C						
		1 HORMONE						
	17 HIP C (prob)	I HORMONE						,
	1 CODLING	2 HIP C						
	13 HIP C	1 HORMONE						
	1 FLOGGER							
	1 CODLING							
	14 HIP C	I HIP C						
	1 HORMONE							
	I CODLING							
	II HIP C	2 HIP C					1 FLOGGER on taxiway	
	2 FLOGGER						•	
	1 CODLING							
	12 HIP C	3 HIP C						
	3 FLOGGER							
	1 CODLING							
	16 HI P C	1 HIP C						
	4 FLOGGER	1 HORMONE						
	I CODLING							
	13 HIP C	6 HIP C						
	1 HORMONE							
	1 FLOGGER							
	1 CODLING							
	18 HIP C	1 HIP C						
	1 HORMONE							
	3 FLOGGER							
	16 HIP C	1 HIP C						
		2 HIP E/F						
		(prob)						
	21 HIP C							
	1 HORMONE							
	I FLOGGER D/F							
	I FLOGGER B/C/E							
	1 CODLING							
	None (partial						1 HIP C on runway	•
	coverage)						1 HIP C near maint	
	18 HIP C	4 HIP C					hangar	
	I HORMONE	4 nir C						•
	3 FLOGGER							
	28 HIP C							
	3 FLOGGER (1 with							
	unid object)							
	30 HIP C (1 w/o rotor)							
	3 FLOGGER							
	30 HIP C							
	1 FLOGGER							

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Table 3. Continued

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ıte	Helicopter Parking Area A	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other
	26 HIP	2 HIP					
	2 FLOGGER						
	25 HIP C	5 HIP C					
	3 FLOGGER	-					
	14 HIP C	10 HIP C					
	20 HIP C w/o						
	rotors						
	I HORMONE						
	2 FLOGGER						
	20 HIP C						
	1 HORMONE						
	I FLOGGER						
	18 HIP C						
	1 HORMONE						
	1 FLOGGER						
	15 HIP C	I HIP C					2 HIP C at
	1 HORMONE						maint hangar
	1 CODLING						
	18 HIP C	3 HIP C					
	1 HORMONE						
	1 CODLING						
	19 HIP C	I HORMONE					
		w/o rotors					
		I HIP C					
	4 HIP C (partly c/c)	I HIP C					
	I FLOGGER (prob)						
	I CODLING						
	14 HIP C						
	1 HORMONE						
	2 FLOGGER						
	1 CODLING						
	14 HIP C	3 HIP C					
	2 FLOGGER (1 on	I HORMONE					
	taxiway)						
	1 CODLING						
	18 HIP C	3 HIP C					
	I FLOGGER	1 HORMONE					
	I CODLING						
	21 HIP C	1 HORMONE					
	I FLOGGER						
	1 CODING						
	19 HIP C	1 HORMONE					
	3 FLOGGER						
	18 HIP C	1 HORMONE					
	3 FLOGGER	I HIP C					
	17 HIP C						1 COKE at ENE
	5 FLOGGER (1 parked	3 HIP C					end of
	on new hardstand						runway
	within this area)						•
	25 HIP C (2 poss	4 HIP C					
	mods)	1 HORMONE					
	1 FLOGGER	1 HORMONE					
	1 CODLING						

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Table 3. Continued

'This table in its entirety is classified TOP SECRET RUFF

Date	Helicopter Parking Area A	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other
	25 HIP C (4	5 HIP (3 prob	******				2 FLOGGER at maint
	prob mods)	mod)					hangar; 1 HIP C at maint
	2 FLOGGER	1 HORMONE					hangar; 1 HOOK at end o
	1 CODLING						runway
	21 HIP C (2 mods)	6 HIP C (3 mod)					
	6 FLOGGER (3 on	I HORMONE					
	hardstand)						
	1 CODLING						
	15 HIP C	6 HIP C (1 in					
		flight					
	4 FLOGGER (3 on	1 HORMONE					
	hardstand)						
	1 CODLING						
	16 HIP C (4 mods)	1 HIP C					2 HIP C near maint
	1 FLOGGER	1 HORMONE					hangar; 1 crate at
	I CODLING	1 HORMONE					ENE end of runway
	12 HIP C	7 HIP (3 mod)					1 FLOGGER at maint
	2 FLOGGER	1 HORMONE					hangar
	13 HIP C (4 prob mods)		2 CURL				I CUB on grass ENE end
	1 FLOGGER						of runway
	1 CODLING						
	5 HIP C (1 mod)	1 HIP C	2 CURL				
	1 FLOGGER	I HORMONE	I COOT				
	1 CODLING		1 COKE				
	4 HIP C	2 HIP C (1 mod)	1 CUB				
	1 FLOGGER on hardstand	1 HORMONE	1 COOT				
	6 HIP C		1 CUB				
	3 FLOGGER (1 on		1 COKE				
	hardstand)		1 CRUSTY				
	I CODLING						
	7 HIP C (4 mods)		1 CUB	3 HIP C			I CAMP on ENE
	3 FLOGGER (2 on		1 COOT				end of runway
	hardstand)		1 CRUSTY				
	1 CODLING						
			1 COKE				
	None (partial coverage)		1 CUB	4 HIP C			
			1 COOT				
			2 CRUSTY				
			1 COKE				
			2 CURL				
	1 HIP C (mod)	8 HIP C (7 mods)		4 HIP C	1 CUB		1 CAMP at ENE
	5 FLOGGER (1 on	1 HORMONE	1 COOT				end of the runway
	hardstand)		2 CRUSTY				
			2 COKE				
			2 CURL				
	4 HIP C (mod)	1 HIP C					1 HIP C MOD
	5 FLOGGER (1 on	1 HORMONE					at maint hangar
	hardstand)						
	1 CODLING						
	1 CAMP						

Table 3. ContinuedThis table in its entirety is classified TOP SECRET RUFF

Date	Helicopter Parking	Hardstand	Parking	Parking	Parking	Parking	Other
	Area A	Area	Area B	Агев С	Area D	Area E	
	8 HIP C						
	6 FLOGGER (3 on	1 HORMONE	1 CUB	4 HIP C			
	hardstand)		1 COOT				
	1 CODLING		1 CRUSTY				
	1 CAMP		2 COKE				
			1 CURL				
	7 HIP C						
	4 FLOGGER on		2 CUB	3 HIP C	1 COOT	1 CURL	
	hardstand		1 CURL	1 HOPLITE			
	1 CAMP		1 COKE				
	1 CODLING		1 CRUSTY				
	9 HIP C	1 HIP C	2 CUB	4 HIP C		1 CUB	
	3 FLOGGER on	1 HORMONE	3 COKE/				
	hardstand		CURL				
	1 CAMP		1 COOT				
	1 CODLING		2 CRUSTY				
	9 HIP C (2 prob mods)	I HIP C	1 CUB	4 HIP C		1 CAMP	I CUB at WSW
	6 FLOGGER (4 on	1 HORMONE	1 COOT				end of runway
	hardstand)						·
	1 CODLING		2 CRUSTY				
	1 CAMP		1 COKE				
			1 CURL				
	10 HIP C	1 HIP C	1 COOT				
	3 FLOGGER (2 on	1 HORMONE	3 COKE/				
	hardstand)		CURL				
	1 CAMP						
	1 CODLING	I CRUSTY					
	10 HIP C	3 HIP C	2 CUB	4 HIP C			
	3 FLOGGER on hard-	1 HORMONE	1 COKE				
	stand	2 CURL					
	I CAMP	1 CRUSTY					
	1 CODLING						
	3 HIP C (2 mods)	2 HIP C (1 mod)	1 CUB	4 HIP C			
	5 FLOGGER (3 on	1 HORMONE	1 COOT	1 HOPLITE			
	hardstand)		2 COKE				
	I CAMP		I CURL				
	1 CODLING		2 CRUSTY				
	5 HIP C (mods)	2 HIP C (1 mod)	1 CUB	4 HIP			
	3 HIP C w/o rotors	1 HORMONE	1 COOT	1 HOPLITE			
	5 FLOGGER (4 on		1 COKE				
	hardstand)		1 CURL				
	I CAMP		1 CRUSTY				
	1 CODLING						
	8 HIP C (2 mods)	I HIP C	2 CUB	5 HIP C			
	2 HIP C w/o rotors	1 HORMONE	3 COKE/	1 HOPLITE			
	6 FLOGGER (4 on		CURL				
	hardstand)		1 CRUSTY				
	1 CAMP						

 Table 3. Continued

 This table in its entirety is classified TOP SECRET RUFF

Date	Helicopter Parking Area A	Hardstand Area	Parking Area B	Parking Area C	Parking Area D	Parking Area E	Other	- 05
	10 HIP C (7 mods) 5 HIP C w/o rotors	I HIP C I HORMONE	2 CUB 1 COOT	5 HIP C 2 HOPLITE				25
	6 FLOGGER (4 on hardstand) 1 CAMP		2 COKE 2 CURL					
	1 CODLING							
	9 HIP C (7 mods)	2 HIP C	2 COKE	5 HIP C		1 HOOK	1 CUB on	
	4 HIP C w/o rotors 6 FLOGGER (4 on hardstand) 1 CAMP	I HORMONE	2 CURL 2 CRUSTY	2 HOPLITE			runway	
	14 HIP C (12 mods)	1 HIP C	1 CUB	4 HIP C				
	2 HIP C w/o rotors	1 HORMONE	1 COOT 2 COKE 2 CURL 2 CRUSTY	2 HOPLITE				
	6 HIP C (3 mods)	9 HIP C	2 CUB	5 HIP C	1 COKE/		1 CUB at WSW	
	10 FLOGGER (3 on hardstand)	1 HORMONE	3 COKE/ CURL	2 HOPLITE	CURL			
	1 CAMP		2 CRUSTY 1 COOT					
	3 HIP C (mods)	4 HIP C (mods)		5 HIP C	1 COKE	1 CAMP	1 HIP C	
	2 HIP C fuselages 4 FLOGGER	I HIP C I HORMONE	2 COKE 2 CURL 1 COOT 1 CRUSTY	2 HOPLITE			fuselage near maint hangar	
	5 HIP C (mods)	4 HIP C (mods)		5 HIP C		1 CAMP	I HIP C	
	3 FLOGGER	I HIP C	1 COOT	2 HOPLITE			fuselage near	
	1 CAMP	I HORMONE	1 COKE 2 CURL 2 CRUSTY				maint hangar	
	9 HIP C (mods)	I HIP C	1 CUB	5 HIP C				
	3 HIP C fuselages 1 CAMP	1 HORMONE	1 COOT 2 CRUSTY 2 CURL 2 COKE	2 HOPLITE				
	9 HIP C (mods)	1 HIP C	1 CUB	5 HIP C				
	3 HIP C fuselages	1 HORMONE	1 COOT	2 HOPLITE				
	1 CAMP		2 CRUSTY					
	1 CODLING		1 CURL 1 COKE					
	9 HIP C (mods)	1 HIP C	2 CUB	4 HIP C				
	4 HIP C fuselages 5 FLOGGER	1 HORMONE	2 CRUSTY 2 CURL	2 HOPLITE				
	1 CAMP		1 COKE					

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REFERENCES

(TSR) All applicable KEYHOLE imagery of suitable interpretability acquired from was used in the preparation of this report.	25X 25X
MAPS OR CHARTS	
SAC. US Air Target Chart, Series 200, Sheet M0201-1HL, 4th ed, scale 1:200,000 (SECRET	25X ²
DOCUMENTS	
1. NPIC. RCA-09/0001/78, Ulan-Ude Airframe Plant 99 (S), Jan 78 (TOP SECRET	25 X 25 X
2. NPIC. BCA-09/0015/74, Ulan-Ude Airframe/Plant 99, USSR, Jan 74 (TOP SECRET	25 X °
3. NPIC. BCA-09/0034/71, Ulan-Ude Airframe Plant 99, USSR, Apr 71 (TOP SECRET	25 X ′ 25 X ′
4. NPIC. RCA-09/0078/70, Ulan-Ude Airframe Plant 99, USSR, Feb 70 (TOP SECRET	25 X ′ 25 X ′
RELATED DOCUMENT	
	25 X
REQUIREMENT	
COMIREX J02 Project 200024DJ	
(S) Comments and queries regarding this report are welcome. They may be directed to Warsaw Pact Forces Division, Imagery Exploitation Group, NPIC, or green extension	25X 25X 25X1

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